



sustrans

JOIN THE MOVEMENT

Bridge Owners Forum 21st January 2014

Huw Davies National Cycle Network Director

Paul Thomas Bridge Engineer

Sustrans

Railway Paths Limited (RPL)

Connect 2



Connect 2



Bath 2 Tunnels



The Sustrans and RPL “Bridges” Team

Paul Thomas

John Litt



How Many Structures?

	Eng / Scot / Wales
RPL	710
Sustrans	430
Total	1140

- These include viaducts, tunnels, bridges, culverts, abutments and retaining walls
- Some have walking and cycling paths, some don't

Overview

In general our structures date from the period of the expansion of the railways (100 to 150 years old)

Mostly

- Brick and masonry arch
- WI and steel beam

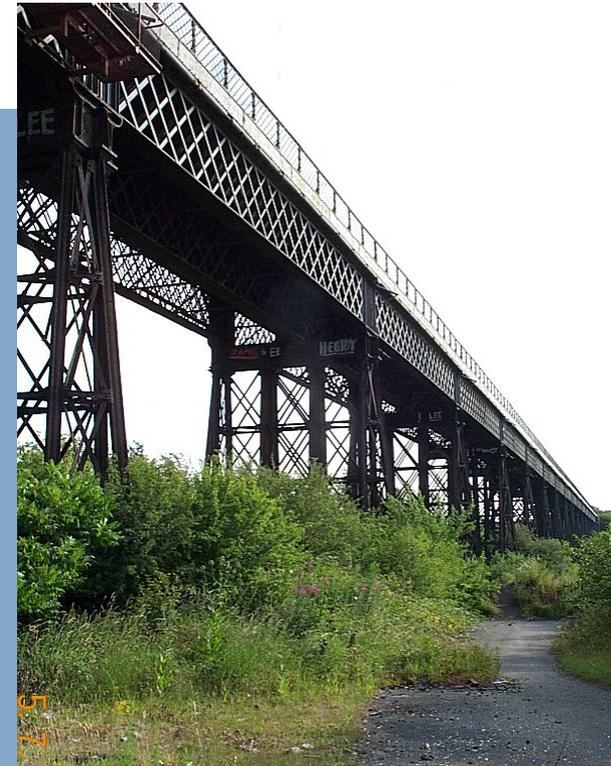
Some

- RC decks (replacements)
- Timber footbridges

None

- Suspension bridges
- Cantilever bridges

The viaducts – 71 no.



Viaducts cont.



Listed Structures – 33 no.



Tunnels – 18 no.



Curios



Structures – Managing decline



Overbridge



Underbridge

Our fortunate position – our underbridges generally have large reserves of strength.

We manage the decline of underbridges and concentrate resources on overbridges that carry the public highway.

Inspections

Inspections

- Routine / visual inspection every year
- Principal / detailed inspection every 6 years (or less)
- Special Inspection as necessary

Risk assessment (with principal inspections)

- Scour and flooding
- Tunnels
- Culverts

Challenges

- Scour and flood related damage
- Listed viaducts
- Overbridges supporting the public highway
- Remote culverts